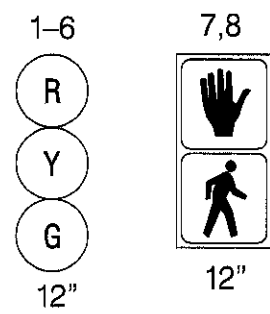


MD 198 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

EXISTING SIGNALS



EXISTING SIGNS

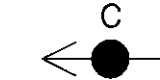
Seventh St
D3-2 DUAL FACE SIGN
VAR-16"



SHIELD ASSEMBLY

	1	2	3	4	5	6	7	8
PHASE 2	G	G	R	R	R	R	DW	DW
2 CHANGE	Y	Y	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 ALT & 8	R	R	G	G	G	G	FL-WK	FL-WK
PED CLEAR	R	R	G	G	G	G	FL-DW	FL-DW
4 ALT & 8 CHANGE	R	R	Y	Y	Y	Y	DW	DW
PRE-EMPTION	G	G	R	R	R	R	DW	DW
CHANGE	Y	Y	R	R	R	R	DW	DW
FLASHING OPERATION	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK

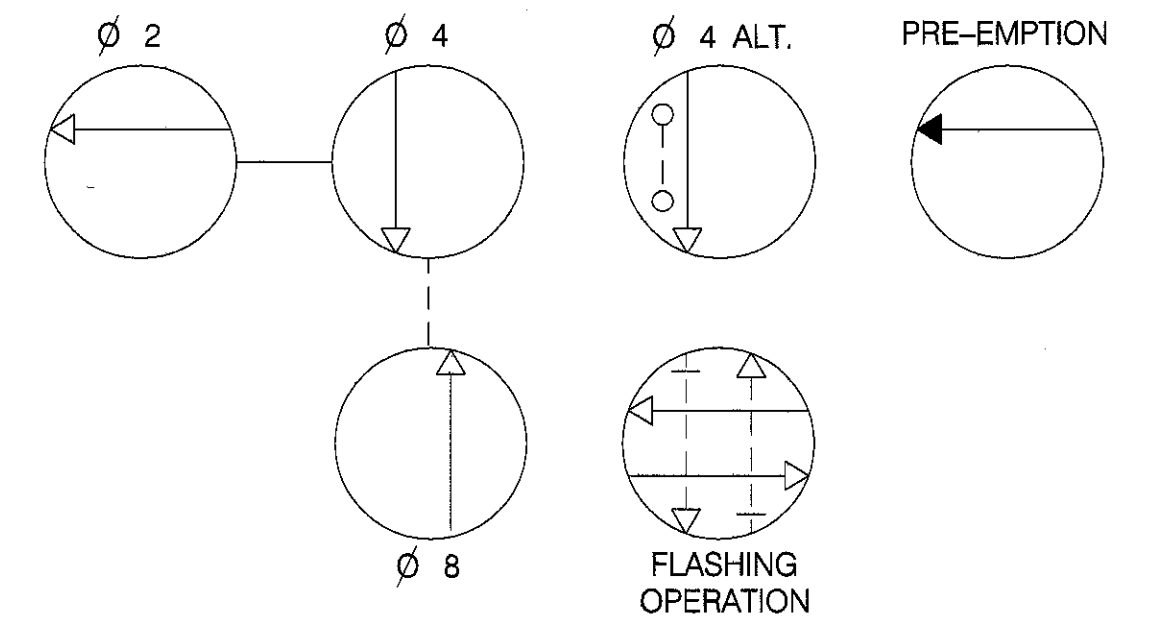
PROPOSED OPTICOM EYE



PROPOSED VIDEO DETECTION CAMERAS

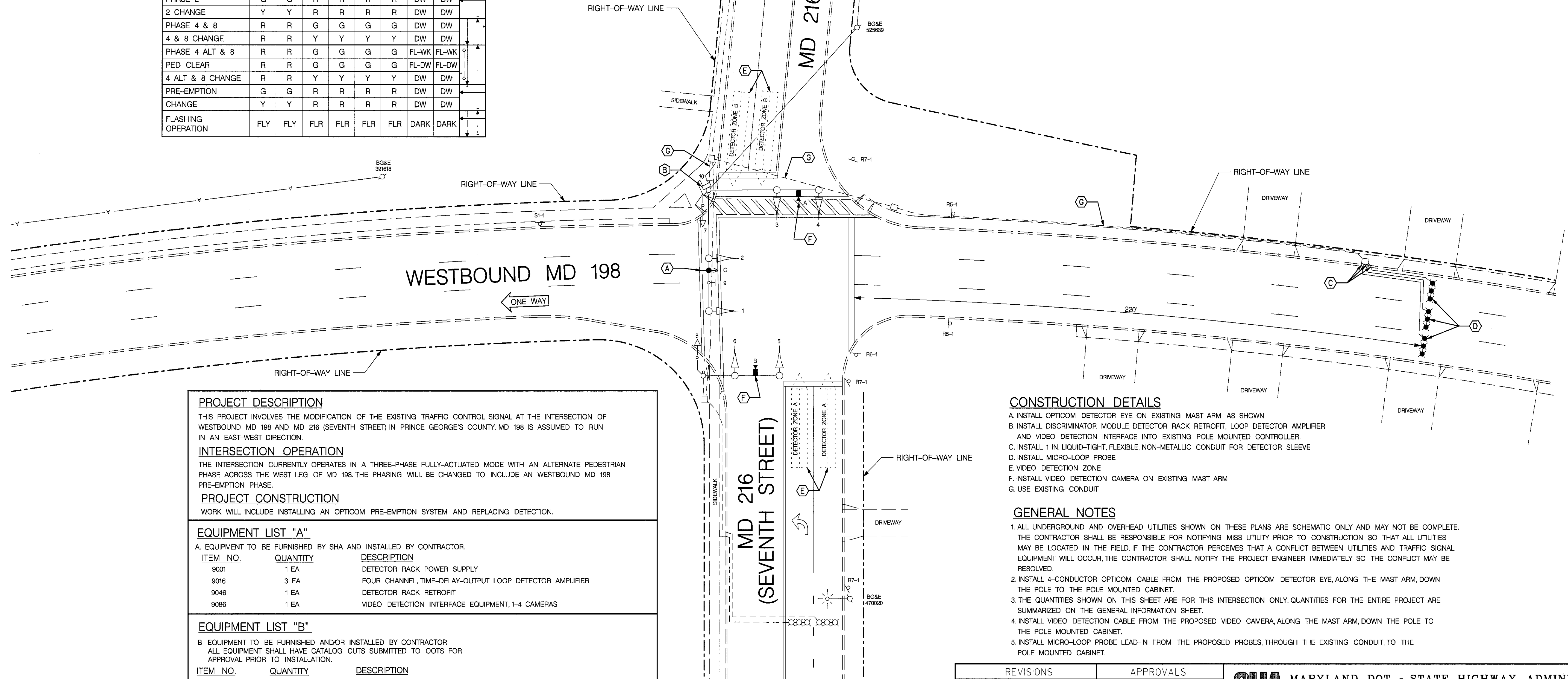


NEMA PHASING



PHASING NOTES:

- 1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- 2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF WESTBOUND MD 198 AND MD 216 (SEVENTH STREET) IN PRINCE GEORGE'S COUNTY. MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A THREE-PHASE FULLY-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 198. THE PHASING WILL BE CHANGED TO INCLUDE AN WESTBOUND MD 198 PRE-EMPTION PHASE.

PROJECT CONSTRUCTION

WORK WILL INCLUDE INSTALLING AN OPTICOM PRE-EMPTION SYSTEM AND REPLACING DETECTION.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EA	DETECTOR RACK POWER SUPPLY
9016	3 EA	FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
9046	1 EA	DETECTOR RACK RETROFIT
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT, 1-4 CAMERAS

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8007	1 EA	FURNISH AND INSTALL CONTROL CABLE, 100 FT., VIDEO DETECTION CAMERA TO CONTROLLER
8008	1 EA	FURNISH AND INSTALL CONTROL CABLE, 200 FT., VIDEO DETECTION CAMERA TO CONTROLLER
8045	20 LF	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8050	3 EA	FURNISH AND INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
8058	2 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8059	1 EA	FURNISH AND INSTALL DISCRIMINATOR MODULE, 4 CHANNEL, NO. 76
8061	1 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8079	60 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE
8089	140 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	— A —
ELECTRICAL	— E —
TELEPHONE	— T —
GAS	— G —
SEWER	— S —
WATER	— W —
CABLE TV	— TV —

CONSTRUCTION DETAILS

- INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM AS SHOWN
- INSTALL DISCRIMINATOR MODULE, DETECTOR RACK RETROFIT, LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE INTO EXISTING POLE MOUNTED CONTROLLER.
- INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
- INSTALL MICRO-LOOP PROBE
- VIDEO DETECTION ZONE
- INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
- USE EXISTING CONDUIT

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. INSTALL 4-CONDUCTOR OPTICOM CABLE FROM THE PROPOSED OPTICOM DETECTOR EYE, ALONG THE MAST ARM, DOWN THE POLE TO THE POLE MOUNTED CABINET.
3. THE QUANTITIES SHOWN ON THIS SHEET ARE FOR THIS INTERSECTION ONLY. QUANTITIES FOR THE ENTIRE PROJECT ARE SUMMARIZED ON THE GENERAL INFORMATION SHEET.
4. INSTALL VIDEO DETECTION CABLE FROM THE PROPOSED VIDEO CAMERA, ALONG THE MAST ARM, DOWN THE POLE TO THE POLE MOUNTED CABINET.
5. INSTALL MICRO-LOOP PROBE LEAD-IN FROM THE PROPOSED PROBES, THROUGH THE EXISTING CONDUIT, TO THE POLE MOUNTED CABINET.

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM

REVISIONS	APPROVALS
11-15-04 TMZ INSTALL OPTICOM PRE-EMPTION	TEAM LEADER, TRAFFIC ENGINEERING DIVISION ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, OFFICE OF TRAFFIC & SAFETY

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNAL PLAN WESTBOUND MD 198 AND MD 216 (SEVENTH STREET)			
DRAWN BY: W. RICHARDSON	F.A.P. NO. P 831-501-385	TS NO. 1991 B	SHEET NO. 2 OF 8
CHECKED BY: SCALE: 1"=20'	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. G 491	
DATE: 7-29-84	LOG MILE: 16019803.01		